

Wairau – Hydroelectric Power Scheme

Client

TrustPower.

Project

The project involved geotechnical assessment and civil design for the feasibility and consenting on 50 km of new canal and 6 power stations.

Services provided

- Geotechnical assessment for scheme corridor
- Stability risk assessment
- Fault location, assessment seismic risk and mitigation (canals cross active Alpine Fault 9 times)
- Canal, embankment and earthworks design
- Groundwater inflow and drawdown assessment
- Assessment of quarry and borrow sources
- Civil design including refining the scheme alignment
- Stakeholder consultation
- Presentation of expert evidence - geotechnical, fault location and seismic response and civil.

Notable advances included providing geotechnical investigation data to the design team on a daily basis. This allowed the alignment to be developed concurrently saving months in the design process.



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